



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

**March 23, 2011**

**4SESD-MTSB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site

Superfund Emergency Response and Removal

**FROM:** Jeffrey Hendel

Quality Assurance Section Chemist

**THRU:** Marilyn Maycock, Chief

Quality Assurance Section

**TO:** Timothy Simpson

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

**Semi Volatile Organics (SVOA)**

Semivolatile organic compounds

CLP BNA



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### **Report Narrative** for Work Order C110904, Project: 11-0207

Site Name: Kerr-McGee Chemical Site, Columbus, MS

CLP Case No. 41017, ELEMENT Sample Nos. C110904-01 through C110904-12

Organic Analysis: Liberty Analytical Corp., Cary, NC

The ESAT Work Team reviewed data for twelve (12) soil samples for Semivolatile Extractables with Selected Ion Monitoring (SIM) per CLP statement of work SOM01.2. The samples were collected between 02/15/11 and 02/17/11, and were received by the laboratory between 02/16/11 and 02/18/11. The final data package was received on 03/04/11 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1/QC-2). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Pertinent data quality factors are discussed below:

### **Semivolatile Extractables**

The recovery of the DMC chloroaniline-d4 was below 10% but within limits in samples C110904-01 and 12. The results associated with this DMC (4-chloroaniline, hexachlorocyclopentadiene, and 3,3'-dichlorobenzidine), all not detected, were "J" qualified (QS-4). The recovery of the DMC chloroaniline-d4 was below 10% and less than limits in samples C110904-03, 04, 05, 06, 07, 08, and 09. The results associated with this DMC, all not detected, were "J" qualified (QS-4).

### **Semivolatile Extractable SIM**

The reporting limit for benzo(a)pyrene was raised in samples C110904-02, 04, and 10 due to blank contamination. The reporting limit for benzo(ghi)perylene was raised in samples C110904-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, and 12 due to blank contamination. The reporting limit for both fluoranthene and pyrene was raised in sample C110904-10 due to blank contamination.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site**

**Contract Lab Case: 41017**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
12462GA1SF	C110904-01	69Q3	Surface Soil	2/15/11 14:20	
12462GB1SF	C110904-02	69Q4	Surface Soil	2/15/11 14:35	
12463GB2SF	C110904-03	69Q5	Surface Soil	2/15/11 15:25	
12463GC1SF	C110904-04	69Q7	Surface Soil	2/15/11 14:50	
12462GC2SF	C110904-05	69Q6	Surface Soil	2/15/11 15:05	
13764A2SF	C110904-06	69W0	Surface Soil	2/15/11 15:50	
13764A2SFX	C110904-07	69W1	Surface Soil	2/15/11 15:50	
29844A2SF	C110904-08	69X2	Surface Soil	2/15/11 16:52	
KM1501A2SF	C110904-09	69X3	Surface Soil	2/15/11 08:30	
KMPP1SF	C110904-10	69P5	Surface Soil	2/15/11 17:00	
KMWP01	C110904-11	69X4	Surface Soil	2/16/11 09:00	
KMWP02	C110904-12	69X5	Surface Soil	2/17/11 12:30	



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## DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-4	Level in blank impacts MRLs.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
CLP16	Initial Calibration Response Erratic
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
OS-4	Surrogate recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

## ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12462GA1SF****Lab ID: C110904-01****MD No:****Station ID: 12462GA1****Matrix: Surface Soil****D No: 69Q3 LIBRTY****Date Collected: 2/15/11 14:20**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
E1644012	% Moisture	26		%		2/23/11	2/25/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	450	U, J, CLP16	ug/kg dry	450	2/23/11	2/25/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	450	U	ug/kg dry	450	2/23/11	2/25/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	1.6	J, CLP01	ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	450	U	ug/kg dry	450	2/23/11	2/25/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	230	U, J, QS-4	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	450	U	ug/kg dry	450	2/23/11	2/25/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	230	U, J, QS-4	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	450	U	ug/kg dry	450	2/23/11	2/25/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	450	U, J, CLP16	ug/kg dry	450	2/23/11	2/25/11	CLP SOM01.2 B
83-32-9	Acenaphthene	1.6	J, CLP01	ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	4.1	J, CLP01	ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12462GA1SF****Lab ID: C110904-01****MD No:****Station ID: 12462GA1****Matrix: Surface Soil****D No: 69Q3 LIBRTY****Date Collected: 2/15/11 14:20**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	7.7		ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	230	U, J, CLP16	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	58		ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	55		ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	130	J, QC-2	ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	59	U, J, B-4, QC-1	ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	94		ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	450		ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
86-74-8	Carbazole	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
218-01-9	Chrysene	100		ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	13		ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
206-44-0	Fluoranthene	120		ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	1.8	J, CLP01	ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U, J, QS-4	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	86	J, QC-2	ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
91-20-3	Naphthalene	2.4	J, CLP01	ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** 12462GA1SF**Lab ID:** C110904-01**MD No:****Station ID:** 12462GA1**Matrix:** Surface Soil**D No:** 69Q3 LIBRTY**Date Collected:** 2/15/11 14:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	33		ug/kg dry	9.1	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	23		ug/kg dry	4.5	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	230	U	ug/kg dry	230	2/23/11	2/25/11	CLP SOM01.2 B
129-00-0	Pyrene	92	J, QC-1	ug/kg dry	31	2/23/11	3/03/11	CLP SOM01.2 BS
<b>Tentatively Identified Compounds:</b>								
1000214-17-4	5-Cholestene-3-ol, 24-methyl-	1000	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
62016-79-9	Heptacosane, 1-chloro-	600	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B



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<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	24		%		2/23/11	2/25/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16	ug/kg dry	430	2/23/11	2/25/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	2/23/11	2/25/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.3	U	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	2/23/11	2/25/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	2/23/11	2/25/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	2/23/11	2/25/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U, J, CLP16	ug/kg dry	430	2/23/11	2/25/11	CLP SOM01.2 B
83-32-9	Acenaphthene	4.3	U	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	4.3	U	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12462GB1SF****Lab ID: C110904-02****MD No:****Station ID: 12462GB1****Matrix: Surface Soil****D No: 69Q4 LIBRTY****Date Collected: 2/15/11 14:35**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	4.3	U	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U, J, CLP16	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	14		ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	15	U, B-4	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	39		ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	13	U, J, B-4, QC-1	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	26		ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
218-01-9	Chrysene	30		ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	2.5	J, CLP01	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
206-44-0	Fluoranthene	32		ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	4.3	U	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	19		ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-20-3	Naphthalene	1.2	J, CLP01	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** 12462GB1SF**Lab ID:** C110904-02**MD No:****Station ID:** 12462GB1**Matrix:** Surface Soil**D No:** 69Q4 LIBRTY**Date Collected:** 2/15/11 14:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	8.8	U	ug/kg dry	8.8	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	5.7		ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
129-00-0	Pyrene	22	J, QC-1	ug/kg dry	4.3	2/23/11	3/03/11	CLP SOM01.2 BS

**Tentatively Identified Compounds:**

73105-67-6	1-Iodo-2-methylundecane	300	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/25/11	CLP SOM01.2 B
638-53-9	Tridecanoic acid	200	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B



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Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12463GB2SF****Lab ID: C110904-03****MD No:****Station ID: 12462GB2****Matrix: Surface Soil****D No: 69Q5 LIBRTY****Date Collected: 2/15/11 15:25**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
E1644012	% Moisture	24		%		2/23/11	2/25/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	440	U, J, CLP16	ug/kg dry	440	2/23/11	2/25/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	2/23/11	2/25/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	4.4		ug/kg dry	4.4	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	2/23/11	2/25/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	2/23/11	2/25/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	2/23/11	2/25/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	440	U, J, CLP16	ug/kg dry	440	2/23/11	2/25/11	CLP SOM01.2 B
83-32-9	Acenaphthene	17		ug/kg dry	4.4	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	5.9		ug/kg dry	4.4	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12463GB2SF****Lab ID: C110904-03****MD No:****Station ID: 12462GB2****Matrix: Surface Soil****D No: 69Q5 LIBRTY****Date Collected: 2/15/11 15:25**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	63		ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U, J, CLP16	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	330		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	330		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	430		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	120	U, J, B-4, QC-1	ug/kg dry	4.4	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	340		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	450		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
218-01-9	Chrysene	390		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	55		ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
206-44-0	Fluoranthene	720		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
86-73-7	Fluorene	21		ug/kg dry	4.4	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	230		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-20-3	Naphthalene	7.0		ug/kg dry	4.4	2/23/11	3/03/11	CLP SOM01.2 BS



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** 12463GB2SF**Lab ID:** C110904-03**MD No:****Station ID:** 12462GB2**Matrix:** Surface Soil**D No:** 69Q5 LIBRTY**Date Collected:** 2/15/11 15:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	9.2		ug/kg dry	8.9	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	310		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
129-00-0	Pyrene	520		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B

  

<b>Tentatively Identified Compounds:</b>								
192-97-2	Benzo[e]pyrene	400	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	800	J, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B



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D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12463GC1SF****Lab ID: C110904-04****MD No:****Station ID: 12462GC1****Matrix: Surface Soil****D No: 69Q7 LIBRTY****Date Collected: 2/15/11 14:50**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
E1644012	% Moisture	16		%		2/23/11	2/26/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	2/23/11	2/26/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	2/23/11	2/26/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.74	J, CLP01	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	2/23/11	2/26/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U, R, QS-4	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	2/23/11	2/26/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U, R, QS-4	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	2/23/11	2/26/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U, J, CLP16	ug/kg dry	390	2/23/11	2/26/11	CLP SOM01.2 B
83-32-9	Acenaphthene	3.9	U	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12463GC1SF****Lab ID: C110904-04****MD No:****Station ID: 12462GC1****Matrix: Surface Soil****D No: 69Q7 LIBRTY****Date Collected: 2/15/11 14:50**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	3.9	U	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, CLP16	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	9.9		ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	9.4	U, B-4	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	35		ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	7.1	U, J, B-4, QC-1	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	27		ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
218-01-9	Chrysene	26		ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	2.8	J, CLP01	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
206-44-0	Fluoranthene	30		ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	3.9	U	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, R, QS-4	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	16		ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
91-20-3	Naphthalene	1.0	J, CLP01	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** 12463GC1SF**Lab ID:** C110904-04**MD No:****Station ID:** 12462GC1**Matrix:** Surface Soil**D No:** 69Q7 LIBRTY**Date Collected:** 2/15/11 14:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	8.0	U	ug/kg dry	8.0	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	5.2		ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	200	U	ug/kg dry	200	2/23/11	2/26/11	CLP SOM01.2 B
129-00-0	Pyrene	24	J, QC-1	ug/kg dry	3.9	2/23/11	3/03/11	CLP SOM01.2 BS

  

<b>Tentatively Identified Compounds:</b>								
62016-79-9	Heptacosane, 1-chloro-	200	NJ, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/26/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	600	J, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B



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Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 12462GC2SF****Lab ID: C110904-05****MD No:****Station ID: 12462GC2****Matrix: Surface Soil****D No: 69Q6 LIBRTY****Date Collected: 2/15/11 15:05**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
E1644012	% Moisture	24		%		2/23/11	2/26/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16	ug/kg dry	430	2/23/11	2/26/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	2/23/11	2/26/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	22	U	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	2/23/11	2/26/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	2/23/11	2/26/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	2/23/11	2/26/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U, J, CLP16	ug/kg dry	430	2/23/11	2/26/11	CLP SOM01.2 B
83-32-9	Acenaphthene	22	U	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	22	U	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** 12462GC2SF**Lab ID:** C110904-05**MD No:****Station ID:** 12462GC2**Matrix:** Surface Soil**D No:** 69Q6 LIBRTY**Date Collected:** 2/15/11 15:05

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	22	U	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U, J, CLP16	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	38		ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	34		ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	120	J, QC-2	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	23	U, B-4	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	81		ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
218-01-9	Chrysene	91		ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	11	J, CLP01	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
206-44-0	Fluoranthene	110		ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	22	U	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	65	J, QC-2	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
91-20-3	Naphthalene	22	U	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** 12462GC2SF**Lab ID:** C110904-05**MD No:****Station ID:** 12462GC2**Matrix:** Surface Soil**D No:** 69Q6 LIBRTY**Date Collected:** 2/15/11 15:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	44	U	ug/kg dry	44	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	15	J, CLP01	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	220	U	ug/kg dry	220	2/23/11	2/26/11	CLP SOM01.2 B
129-00-0	Pyrene	70	J, QC-1	ug/kg dry	22	2/23/11	3/03/11	CLP SOM01.2 BS

**Tentatively Identified Compounds:**

474-62-4	Campesterol	900	NJ, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B
62016-76-6	Nonadecane, 1-chloro-	200	NJ, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/26/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B



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Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 13764A2SF****Lab ID: C110904-06****MD No:****Station ID: 13764****Matrix: Surface Soil****D No: 69W0 LIBRTY****Date Collected: 2/15/11 15:50**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
E1644012	% Moisture	20		%		2/23/11	2/26/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U, J, CLP16	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
83-32-9	Acenaphthene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site**

**Contract Lab Case: 41017**

**Sample ID:** 13764A2SF

**Lab ID:** C110904-06

**MD No:**

**Station ID:** 13764

**Matrix:** Surface Soil

**D No:** 69W0 LIBRTY

**Date Collected:** 2/15/11 15:50

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U, J, CLP16	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	42		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	34		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	64		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	18	U, J, B-4, QC-1	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	58		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	250	J, QC-2	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
218-01-9	Chrysene	56		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	9.9	J, CLP01	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
206-44-0	Fluoranthene	110		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	44		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-20-3	Naphthalene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 13764A2SF****Lab ID: C110904-06****MD No:****Station ID: 13764****Matrix: Surface Soil****D No: 69W0 LIBRTY****Date Collected: 2/15/11 15:50**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	34	U	ug/kg dry	34	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	37		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
129-00-0	Pyrene	71	J, QC-1	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS

  

<b>Tentatively Identified Compounds:</b>								
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/26/11	CLP SOM01.2 B
544-63-8	Tetradecanoic Acid	400	NJ, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	4000	J, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B



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Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 13764A2SFX****Lab ID: C110904-07****MD No:****Station ID: 13764****Matrix: Surface Soil****D No: 69W1 LIBRTY****Date Collected: 2/15/11 15:50**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
E1644012	% Moisture	18		%		2/23/11	2/26/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	2/23/11	2/26/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	2/23/11	2/26/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	16	U	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	2/23/11	2/26/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	2/23/11	2/26/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	2/23/11	2/26/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U, J, CLP16	ug/kg dry	400	2/23/11	2/26/11	CLP SOM01.2 B
83-32-9	Acenaphthene	16	U	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	16	U	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	52	J, CLP01	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 13764A2SFX****Lab ID: C110904-07****MD No:****Station ID: 13764****Matrix: Surface Soil****D No: 69W1 LIBRTY****Date Collected: 2/15/11 15:50**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	16	U	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U, J, CLP16	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	39		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	32		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	60		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	17	U, J, B-4, QC-1	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	53		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
218-01-9	Chrysene	52		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	9.0	J, CLP01	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
206-44-0	Fluoranthene	110		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	16	U	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	39		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-20-3	Naphthalene	16	U	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** 13764A2SFX**Lab ID:** C110904-07**MD No:****Station ID:** 13764**Matrix:** Surface Soil**D No:** 69W1 LIBRTY**Date Collected:** 2/15/11 15:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	33	U	ug/kg dry	33	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	36		ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
129-00-0	Pyrene	68	J, QC-1	ug/kg dry	16	2/23/11	3/03/11	CLP SOM01.2 BS
<b>Tentatively Identified Compounds:</b>								
4282-42-2	Nonane, 1-iodo-	500	NJ, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/26/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	5000	J, CLP15	ug/kg dry	0	2/23/11	2/26/11	CLP SOM01.2 B



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Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 29844A2SF****Lab ID: C110904-08****MD No:****Station ID: 29844****Matrix: Surface Soil****D No: 69X2 LIBRTY****Date Collected: 2/15/11 16:52**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		2/23/11	2/26/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	20	U	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U, J, CLP16	ug/kg dry	410	2/23/11	2/26/11	CLP SOM01.2 B
83-32-9	Acenaphthene	20	U	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	4.3	J, CLP01	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site**

**Contract Lab Case: 41017**

**Sample ID:** 29844A2SF

**Lab ID:** C110904-08

**MD No:**

**Station ID:** 29844

**Matrix:** Surface Soil

**D No:** **69X2 LIBRTY**

**Date Collected:** 2/15/11 16:52

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	20	U	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U, J, CLP16	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	50		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	51		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	110		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	28	U, J, B-4, QC-1	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	100		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
218-01-9	Chrysene	80		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	16	J, CLP01	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
206-44-0	Fluoranthene	140		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	20	U	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, R, QS-4	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	70		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
91-20-3	Naphthalene	20	U	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: 29844A2SF****Lab ID: C110904-08****MD No:****Station ID: 29844****Matrix: Surface Soil****D No: 69X2 LIBRTY****Date Collected: 2/15/11 16:52**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	41	U	ug/kg dry	41	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	92		ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	210	U	ug/kg dry	210	2/23/11	2/26/11	CLP SOM01.2 B
129-00-0	Pyrene	86	J, QC-1	ug/kg dry	20	2/23/11	3/03/11	CLP SOM01.2 BS

  

<b>Tentatively Identified Compounds:</b>							
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/26/11
R4-6501	Unidentified Compound(s)	800	J, CLP15	ug/kg dry	0	2/23/11	2/26/11



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KM1501A2SF****Lab ID: C110904-09****MD No:****Station ID: KM1501****Matrix: Surface Soil****D No: 69X3 LIBRTY****Date Collected: 2/15/11 8:30**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		2/23/11	2/25/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	2/23/11	2/25/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	2/23/11	2/25/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	2/23/11	2/25/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	2/23/11	2/25/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	2/23/11	2/25/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U, J, CLP16	ug/kg dry	420	2/23/11	2/25/11	CLP SOM01.2 B
83-32-9	Acenaphthene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B



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Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KM1501A2SF****Lab ID: C110904-09****MD No:****Station ID: KM1501****Matrix: Surface Soil****D No: 69X3 LIBRTY****Date Collected: 2/15/11 8:30**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U, J, CLP16	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	22		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	27		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	72	J, QC-2	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	18	U, B-4	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	61		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	340		ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
218-01-9	Chrysene	41		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	8.3	J, CLP01	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
206-44-0	Fluoranthene	59		ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, R, QS-4	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	45	J, QC-2	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
91-20-3	Naphthalene	17	U	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KM1501A2SF****Lab ID: C110904-09****MD No:****Station ID: KM1501****Matrix: Surface Soil****D No: 69X3 LIBRTY****Date Collected: 2/15/11 8:30**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	34	U	ug/kg dry	34	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	7.8	J, CLP01	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	220	U	ug/kg dry	220	2/23/11	2/25/11	CLP SOM01.2 B
129-00-0	Pyrene	48	J, QC-1	ug/kg dry	17	2/23/11	3/03/11	CLP SOM01.2 BS

**Tentatively Identified Compounds:**

474-62-4	Campesterol	500	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/25/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry	0	2/23/11	2/25/11	CLP SOM01.2 B



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Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KMPP1SF****Lab ID: C110904-10****MD No:****Station ID: KMPP1****Matrix: Surface Soil****D No: 69P5 LIBRTY****Date Collected: 2/15/11 17:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		2/23/11	2/25/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	2/23/11	2/25/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	2/23/11	2/25/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	2.7	J, CLP01	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	2/23/11	2/25/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	2/23/11	2/25/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	2/23/11	2/25/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U, J, CLP16	ug/kg dry	370	2/23/11	2/25/11	CLP SOM01.2 B
83-32-9	Acenaphthene	3.7		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	2.7	J, CLP01	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KMPP1SF****Lab ID: C110904-10****MD No:****Station ID: KMPP1****Matrix: Surface Soil****D No: 69P5 LIBRTY****Date Collected: 2/15/11 17:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
120-12-7	Anthracene	3.7	U	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U, J, CLP16	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	8.9		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	11	U, B-4	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	19		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	8.2	U, J, B-4, QC-1	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	14		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
218-01-9	Chrysene	11		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	5.1		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
206-44-0	Fluoranthene	11	U, B-4	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	3.7	J, CLP01	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	12		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
91-20-3	Naphthalene	2.5	J, CLP01	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS



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D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID:** KMPP1SF**Lab ID:** C110904-10**MD No:****Station ID:** KMPP1**Matrix:** Surface Soil**D No:** **69P5 LIBRTY****Date Collected:** 2/15/11 17:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	13		ug/kg dry	7.5	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	4.9		ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	2/23/11	2/25/11	CLP SOM01.2 B
129-00-0	Pyrene	9.1	U, J, B-4, QC-1	ug/kg dry	3.7	2/23/11	3/03/11	CLP SOM01.2 BS
<b>Tentatively Identified Compounds:</b>								
R4-6500	Petroleum Product:	N, CLP15			0	2/23/11	2/25/11	CLP SOM01.2 B



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KMWP01****Lab ID: C110904-11****MD No:****Station ID: KMWP01****Matrix: Surface Soil****D No: 69X4 LIBRTY****Date Collected: 2/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	7.1		%		2/28/11	3/01/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	11000	U, J, CLP16	ug/kg dry	11000	2/28/11	3/01/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	11000	U	ug/kg dry	11000	2/28/11	3/01/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
95-48-7	2-Methylphenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	11000	U	ug/kg dry	11000	2/28/11	3/01/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	11000	U	ug/kg dry	11000	2/28/11	3/01/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	11000	U	ug/kg dry	11000	2/28/11	3/01/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	11000	U, J, CLP16	ug/kg dry	11000	2/28/11	3/01/11	CLP SOM01.2 B
83-32-9	Acenaphthene	27000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
208-96-8	Acenaphthylene	1500	J, CLP01	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
98-86-2	Acetophenone	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KMWP01****Lab ID: C110904-11****MD No:****Station ID: KMWP01****Matrix: Surface Soil****D No: 69X4 LIBRTY****Date Collected: 2/16/11 9:00**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	28000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
1912-24-9	Atrazine	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	5400	U, J, CLP16	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	110000		ug/kg dry	54000	2/28/11	3/01/11	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	55000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	95000		ug/kg dry	54000	2/28/11	3/01/11	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	23000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	70000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
105-60-2	Caprolactam	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
86-74-8	Carbazole	7500		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
218-01-9	Chrysene	100000		ug/kg dry	54000	2/28/11	3/01/11	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	8400		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
132-64-9	Dibenzofuran	19000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
206-44-0	Fluoranthene	510000		ug/kg dry	54000	2/28/11	3/01/11	CLP SOM01.2 B
86-73-7	Fluorene	32000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	31000		ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
78-59-1	Isophorone	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
91-20-3	Naphthalene	1900	J, CLP01	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KMWP01****Lab ID: C110904-11****MD No:****Station ID: KMWP01****Matrix: Surface Soil****D No: 69X4 LIBRTY****Date Collected: 2/16/11 9:00**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
98-95-3	Nitrobenzene	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	11000	U, J, CLP16	ug/kg dry	11000	2/28/11	3/01/11	CLP SOM01.2 B
85-01-8	Phenanthrene	190000		ug/kg dry	54000	2/28/11	3/01/11	CLP SOM01.2 B
108-95-2	Phenol	5400	U	ug/kg dry	5400	2/28/11	3/01/11	CLP SOM01.2 B
129-00-0	Pyrene	340000		ug/kg dry	54000	2/28/11	3/01/11	CLP SOM01.2 B
<b>Tentatively Identified Compounds:</b>								
479-79-8	11H-Benzo[a]fluoren-11-one	100000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
243-17-4	11H-Benzo[b]fluorene	20000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
203-64-5	4H-Cyclopenta[def]phenanthrene	40000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
781-43-1	9,10-Dimethylanthracene	10000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
50861-05-7	9H-Cyclopenta[a]pyrene	30000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
486-25-9	9H-Fluoren-9-one	20000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
227-86-1	Anthra(1,2-b)thiophene	20000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
2541-69-7	Benz[a]anthracene, 7-methyl-	30000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
225-51-4	Benz[c]acridine	20000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
239-30-5	Benzo[b]naphtho[1,2-d]furan	30000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	40000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
192-97-2	Benzo[e]pyrene	30000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
5737-13-3	Cyclopenta(def)phenanthrenone	30000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
243-24-3	Indeno[2,1-b]chromene,	20000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
268-77-9	Naphtho[2,3-b]thiophene	10000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
2531-84-2	Phenanthrene, 2-methyl-	20000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
2381-21-7	Pyrene, 1-methyl-	20000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
3442-78-2	Pyrene, 2-methyl-	30000	NJ, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400000	J, CLP15	ug/kg dry	0	2/28/11	3/01/11	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0019

Project: 11-0207, Kerr-McGee Chemical (Columbus) Site - Reported by Jeffrey Hendel

## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KMWP02****Lab ID: C110904-12****MD No:****Station ID: KMWP01****Matrix: Surface Soil****D No: 69X5 LIBRTY****Date Collected: 2/17/11 12:30**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
E1644012	% Moisture	9.0		%		2/23/11	2/26/11	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	2/23/11	2/26/11	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	2/23/11	2/26/11	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	18	U	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	2/23/11	2/26/11	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U, J, QS-4	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	2/23/11	2/26/11	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U, J, QS-4	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	2/23/11	2/26/11	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U, J, CLP16	ug/kg dry	360	2/23/11	2/26/11	CLP SOM01.2 B
83-32-9	Acenaphthene	18	U	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
208-96-8	Acenaphthylene	18	U	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
98-86-2	Acetophenone	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B



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## Semi Volatile Organics

**Project: 11-0207, Kerr-McGee Chemical (Columbus) Site****Contract Lab Case: 41017****Sample ID: KMWP02****Lab ID: C110904-12****MD No:****Station ID: KMWP01****Matrix: Surface Soil****D No: 69X5 LIBRTY****Date Collected: 2/17/11 12:30**

<b>CAS Number</b>	<b>Analyte</b>	<b>Results</b>	<b>Qualifiers</b>	<b>Units</b>	<b>MRL</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Method</b>
120-12-7	Anthracene	18	U	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
1912-24-9	Atrazine	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U, J, CLP16	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	56		ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	43		ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	78	J, QC-2	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	24	U, B-4	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	73		ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
218-01-9	Chrysene	68		ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	13	J, CLP01	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
206-44-0	Fluoranthene	140		ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
86-73-7	Fluorene	18	U	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QS-4	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	63	J, QC-2	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
78-59-1	Isophorone	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
91-20-3	Naphthalene	18	U	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS



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<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
87-86-5	Pentachlorophenol	37	U	ug/kg dry	37	2/23/11	3/03/11	CLP SOM01.2 BS
85-01-8	Phenanthrene	42		ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS
108-95-2	Phenol	190	U	ug/kg dry	190	2/23/11	2/26/11	CLP SOM01.2 B
129-00-0	Pyrene	84	J, QC-1	ug/kg dry	18	2/23/11	3/03/11	CLP SOM01.2 BS

  

<b>Tentatively Identified Compounds:</b>							
R4-6500	Petroleum Product:		N, CLP15		0	2/23/11	2/26/11
R4-6501	Unidentified Compound(s)		500 J, CLP15	ug/kg dry	0	2/23/11	2/26/11